

# DATA DRIVER USED IN A CURRENT-DRIVING DISPLAY DEVICE

## Abstract

A data driver used in a current-driving display device for receiving a digital signal and for outputting a gray-scaled current signal to a data line. The data driver includes a digital-to-analog current converter for transforming the digital signal into an analog current signal, a current-copying/reproducing module, and a control circuit. The current-copying/reproducing module is used to store a predetermined voltage for conducting the analog current signal in a transforming/storing status and to conduct a reproducing current signal to the data line in a reproducing/sustaining status. The control circuit is electrically connected between the digital-to-analog current converter and the current-copying/reproducing module for providing a switch between the transforming/storing status and the reproducing/sustaining status. The reproducing current signal is the gray-scaled current signal and is almost equivalent to the analog current signal.